

Screens



by CHAMBERLIN

POINTS TO CHECK IN SELECTING THE RIGHT SCREENS

- | | |
|------------------------------------|------------------------------|
| √ Convenience | √ Planned installation |
| √ Harmony with architectural style | √ Ventilation |
| √ Low cost through long life | √ Admission of maximum light |
| √ Structural design | √ Unobstructed vision |

ADDED SMARTNESS FOR EVERY HOME

For homes of every type, of every class, in every community, to be screened by Chamberlin is truly a mark of distinction. Through the fine design and

superior features of Chamberlin all-metal construction, the screens have become an added touch of smartness and style in the architecture of the home.

CHAMBERLIN SERVICE

The Chamberlin Sales and Service Organization is nation-wide. Established in 1893 to market the first practical metal weather strip, it has the advantage of 45 years of continuous experience in the building industry.

Since 1907, when it abandoned its licensee method of representation prone to divided interest among a diversified line of products, the Company has maintained its present Branch Office System which insures

centralized responsibility of service, sales and installation for Chamberlin products.

The personnel of each Branch Office consists of experienced, Chamberlin-trained representatives, thoroughly familiar with and interested only in Chamberlin Products and, above all, Chamberlin Service. Demonstration models and samples are maintained at each Branch Office quickly accessible for examination.

Chamberlin financial responsibility today stands unimpaired.

SCREEN CONTRACTS

Separate Contracts—Because of the wide variety of screens adaptable to the different types of windows and doors, it is sometimes a difficult task for the architect to clearly define in his specifications his exact requirements, thus leaving to the General Contractor the responsibility of interpreting the intent of the specifications in the light of a definite sub-contract awarded. It has therefore been found advantageous to all concerned that the screens be purchased through a Separate Contract made directly with the screen manufacturer, and particularly so since the screen installation at the building should be made by him rather than by field mechanics unfamiliar with screen requirements.

Lump Sum Appropriation—Where it is desirable that the cost of the screens be included in the General Contract, this is best handled under the customary lump sum allowance. The local Chamberlin Representative will gladly co-operate with the architect in establishing this lump sum appropriation. His thorough familiarity with screen problems and their solutions assures the architect of a dependable estimate of cost based on logical selection of type and complete, satisfactory installation. Changes in the finally completed building calling for adjustments in the screen installation are readily handled under this method due to centralized responsibility.

CHAMBERLIN METAL WEATHER STRIP CO., INC.

1254 LABROSSE ST.

DETROIT, MICHIGAN

FACTORIES:

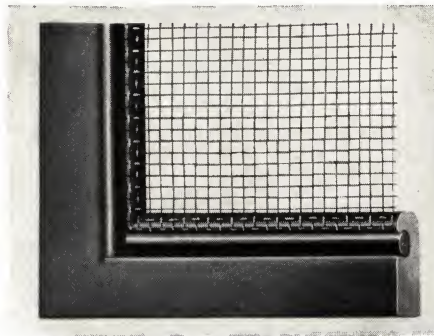
DETROIT, MICHIGAN

PERU, ILLINOIS

CHAMBERLIN SOLID FLAT SCREENS

CONSTRUCTION

The eccentric wiring spline groove is rolled and cold-drawn into the frame bar at the mill. It is not a machine groove. There are no sharp edges to cut the wire screen cloth. The frame is wired by rolling the mesh into the eccentric grooves and securely locking it therein with solid wire splines. The frames are electrically butt-welded, with a seamless



NO. 100 FRAME— $\frac{1}{4}$ " x $\frac{9}{16}$ "

joint at all corners and at junctures with cross-braces where these are required.

FRAME MATERIALS

Steel—Hot-rolled, cold-drawn steel completely Parkerized and finished after complete fabrication of the frame including attachment of hardware accessories.

Bronze—Solid extruded architectural bronze.

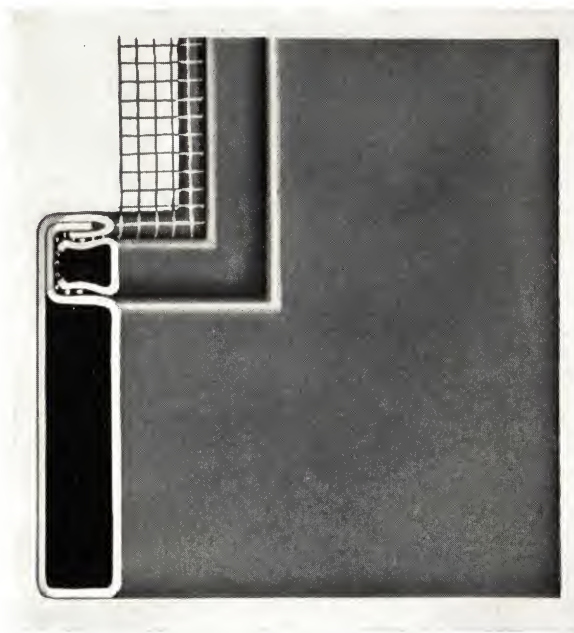
CHAMBERLIN TUBULAR FLAT SCREENS

DESCRIPTION

Chamberlin tubular screens are made in steel, bronze, aluminum, Monel and stainless steel. The one-inch rail screen is standard for ordinary windows; the one-and-one-half inch for large windows and porch sections; the two-inch rail is designed for extra large windows or porch sections.

CONSTRUCTION

The sheet metal strips for both frames and wiring splines are accurately roll-formed to the sections de-



NO. 700 FRAME— $\frac{7}{16}$ " x 2"

tailed. Frames are reinforced inside with corner plates and are electrically welded at junctures or laps, and butt-welded with a seamless joint at all corners and at junctures with cross-braces where they are required.

The illustrations show the method of wiring. Splines are removable for rewiring. Note particularly that the edges of the spline groove as well as those of the spline are carefully rounded to avoid possibility of cutting the screen cloth.

FRAME MATERIALS

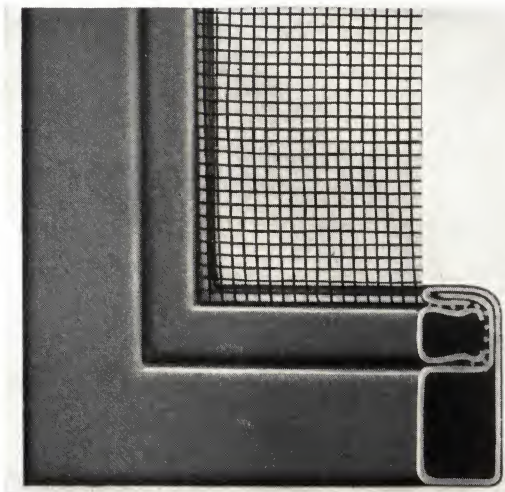
Steel—Zinc-coated, .025 and .032.

Bronze—cold-rolled, .025 and .032.

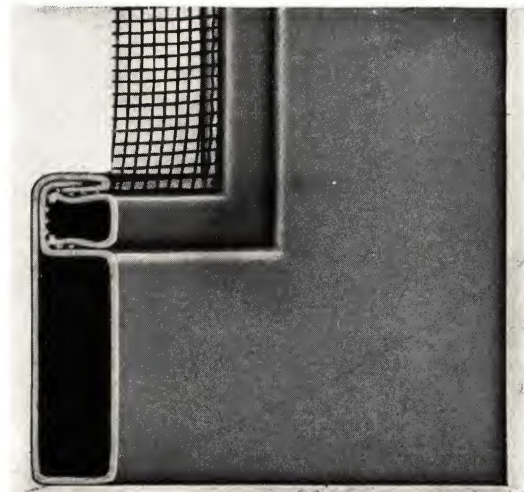
Aluminum—3 S .040.

Stainless Steel— .025.

Monel Metal— .025.



NO. 500 FRAME— $\frac{7}{16}$ " x 1"



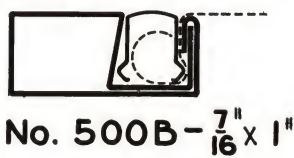
NO. 600 FRAME— $\frac{7}{16}$ " x 1½"

FULL SIZE CROSS SECTIONS

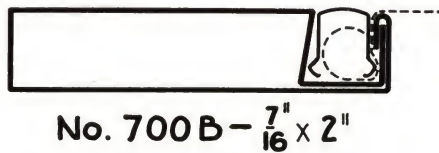
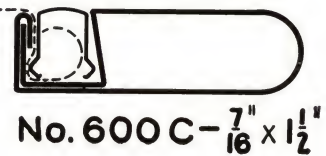
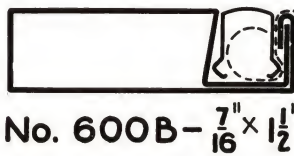
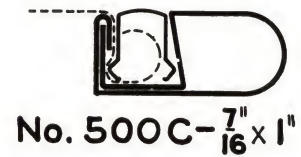
CHAMBERLIN SOLID FRAMES



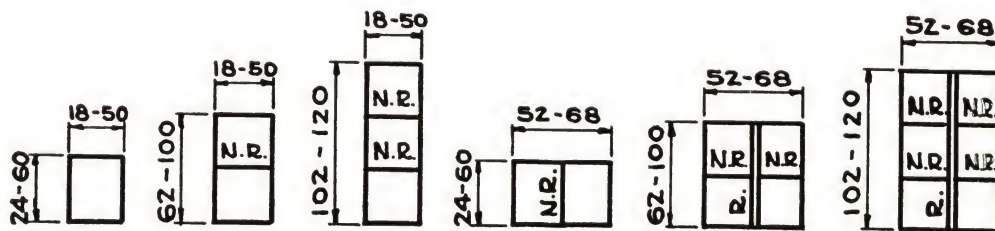
CHAMBERLIN TUBULAR FRAMES



IN STEEL, BRONZE,
ALUMINUM,
STAINLESS STEEL,
MONEL



NOTE: "B" Sections are used for sliding screens and for all but pivot side of pivoted screens. Round edge sections "C" are used for pivot side of pivoted screens and bottom rail of horizontal sliding screens.



Braces allowable in accordance with above diagram.
"N.R." indicates Non-rewirable Brace. "R" indicates Rewirable Brace.

FINISHES

Steel—Standard colors (gray, black, brown, green) are furnished with prime and finish coats baked on. Special colors are furnished with prime coat baked on and finish coats sprayed on.

Bronze—Polished or statuary bronze finishes.

Aluminum—Wire brush finish with one coat of clear lacquer.

WIRE SCREEN CLOTH

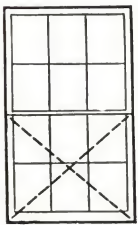
Standard Mesh—No. 16 mesh .0113 copper bronze wire on steel and bronze frames; No. 16 mesh .0113 aluminum wire on aluminum frames; No. 16 mesh .009 Monel wire on stainless steel frames; No. 16 mesh .009 Monel wire on Monel frames.

Special Meshes—At additional cost.

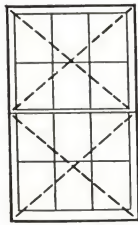
SCREENS FOR DOUBLE HUNG WINDOWS

METHODS OF SCREENING

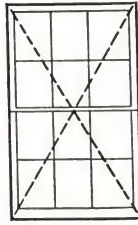
There are four types of screens to select from: (1) single vertical sliding half screens, (2) twin sliding half screens, (3) top hung full screens, (4) interior rolling full screens. The determining factors are: (A) Exterior or interior installation; (B) Ease and convenience of erection, removal and storage (Type 4 excepted—roll screens remain up year 'round); (C) Ease of window washing during the screen season; (D) Initial cost warranted for the particular project.



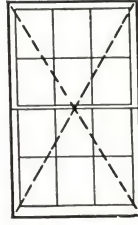
Type 1
Outside



Type 2
Outside



Type 3
Outside



Type 4
Inside

(1) SINGLE VERTICAL SLIDING HALF SCREENS

Exterior Installation—Since the upper sash is seldom lowered for ventilation, this type of screen, the most economical, is admirably adapted. The lower sash may be opened as much as is desired. Full length

guides attached to the face of the blind stop make it possible to screen either the upper or lower half of the window at will, although in the case of the upper half, the upper sash must be completely lowered to close insect passageway. Outsides of windows are easily washed. Screens are easily installed from the inside, are light, and require minimum storage space.

(2) TWIN SLIDING HALF SCREENS

Exterior Installation—Screens entire window opening independent of sash operation. Full length guides attached to face of blind stop or in outside rabbet make it possible, due to thinness of screens, to slide both screens either up or down to give access to exterior of sash for washing. They are easily installed from the inside by one person, are light, and easily handled and stored.

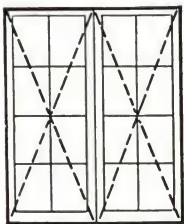
(3) TOP HUNG FULL SCREENS

Exterior Installation—A single full screen pivoted at the top, set in the outside rabbet. Can be installed from the inside.

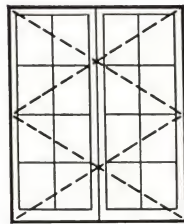
(4) INTERIOR ROLLING FULL SCREENS

Interior Installation—The screen is always easily accessible from the inside. See pages 8, 9, 10.

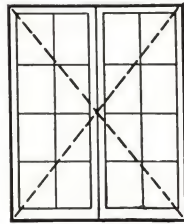
SCREENS FOR CASEMENT WINDOWS



Type 1
Inside



Type 2
Inside



Type 3
Inside or Out

SINGLE FIXED OR PIVOTED FULL SCREENS

In-Opening Casements—For either single or double casements screen sets in outside rabbet. Screen may be either fixed, or top or side pivoted depending on size and shape. See Type 3.

Out-Opening Casements—For single casements screen sets in interior jamb rabbet. Screen should be side pivoted.

DOUBLE PIVOTED FULL SCREENS

Out-Opening Casements—For double casements screens set in interior jamb rabbet. Screens should be side pivoted to swing in with insect tight meeting stiles.

Adaptable where interior drapery treatment will not interfere. See Type 1.

TWIN HORIZONTAL SLIDING FULL SCREENS

Out-Opening Casements—For double casements screens operate in top and bottom guides. Provide interior jamb rabbets at head and sides. Adaptable where interior drapery treatment will interfere with in-swinging pivoted type. See Type 1.

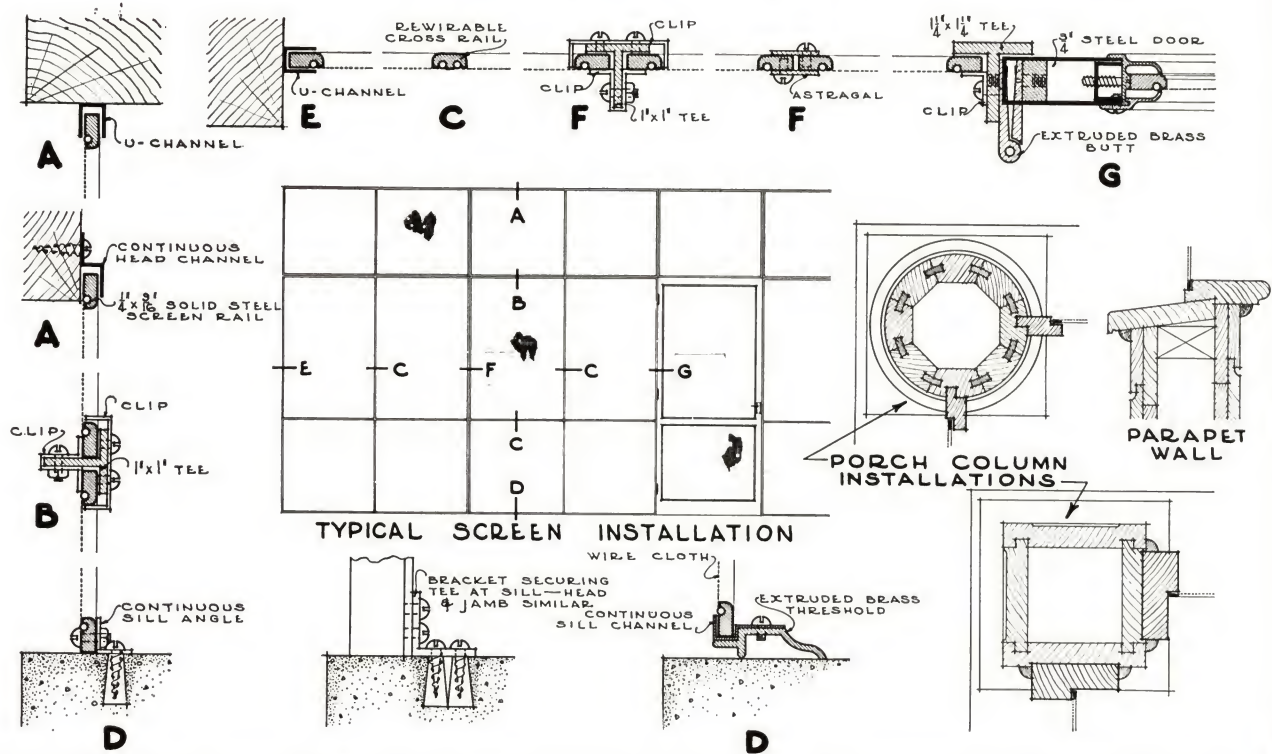
TWIN VERTICAL SLIDING HALF SCREENS

Out-Opening Casements—For single or double casements screens operate in side guides. Provide interior jamb rabbets. Adaptable where interior drapery treatment will interfere with in-swinging pivoted type and casement hardware is more conveniently operated than with horizontal sliding type. See Type 2.

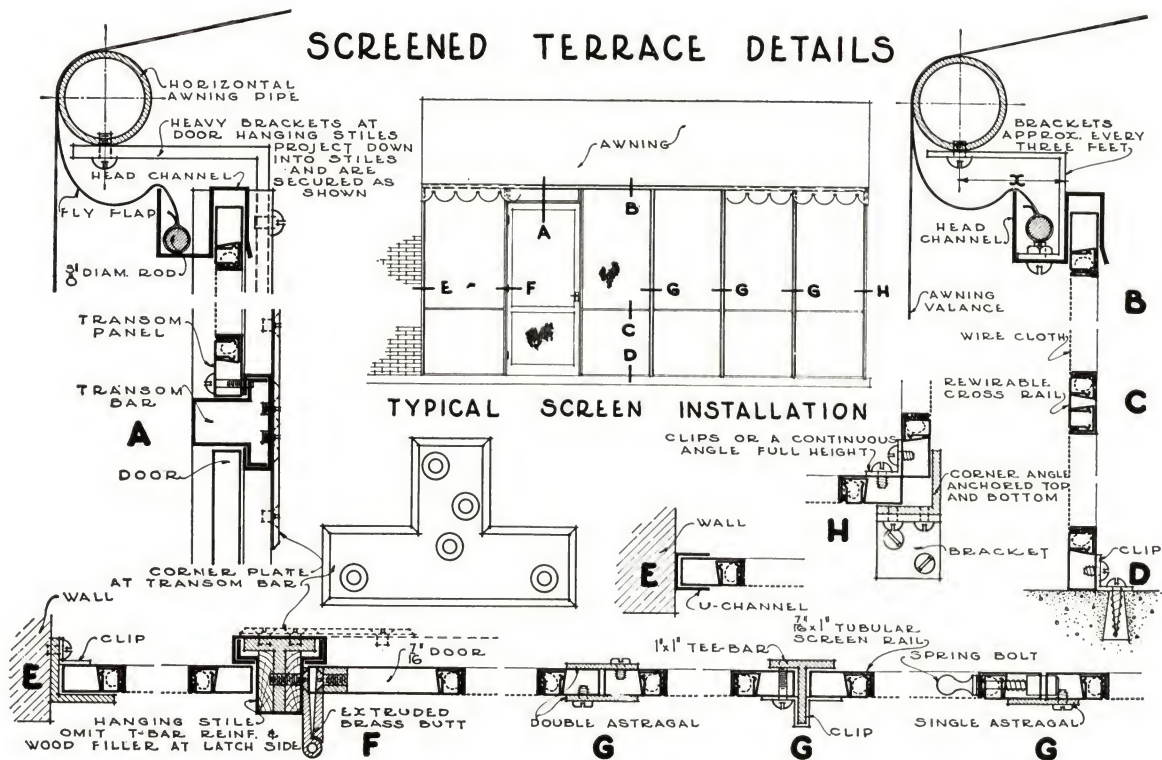
INTERIOR ROLLING FULL SCREENS

Out-Opening Casements—For single or double casements with housing and guides visible or concealed. See pages 8, 9, 10.

SCREENED PORCH DETAILS



SCREENED TERRACE DETAILS



Even If the Porch or Terrace Is of Unusual Design, Chamberlin Can Transform It Into a Delightful Outdoor Living Room

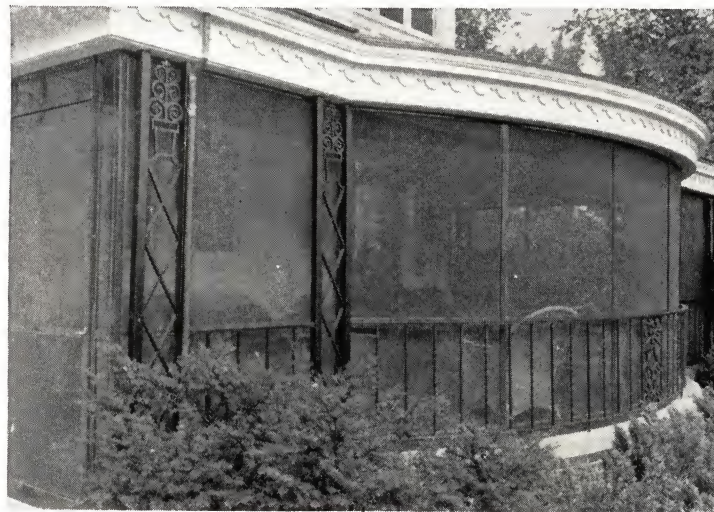


Before screening, metal 1" x 1" x 1/8" ells placed at wall and 1 1/4" x 1 1/4" x 3/16" metal tees at door.



After screening with 7/16" x 1 1/2" Tubular Steel sections finished green. Door 3/4" thick steel with 16 mesh copper bronze .015 wire. Lower panel reinforced with 1 1/2" mesh flat ribbon bronze grille statuary finish.

A porch or terrace of unusual design sometimes seems an impossible problem when first considered for that extra room, but the present-day art of bending and shaping metals as developed by Chamberlin, and the wide experience of its engineers, successfully overcome even serious handicaps.



View at left shows exterior of porch shown on front cover. Porch sections were bowed to follow contour of porch, thereby fitting into and harmonizing with the architecture of the building and giving maximum use of floor space.



Porch sections 7/16" x 1" Tubular Bronze natural finish. Doors 3/4" thick bronze natural finish with 1" mesh copper guard in lower panel. This unused space was here transformed into a livable outdoor room.



Porch sections 7/16" x 2" Tubular Bronze statuary finish with 16 mesh copper bronze .015 wire. Double doors 1 1/8" thick statuary finish with 1" mesh flat ribbon bronze grille statuary finish in lower panel.

CHAMBERLIN METAL SCREEN DOORS

The entrance door conveys the first impression of a home. Doors are the real test of a good screen job, and screen doors should be selected with the same care as entrance doors.

Chamberlin hollow-section metal doors are made of steel or bronze in frame thicknesses of $\frac{7}{16}$ inch, $\frac{3}{4}$ inch and $1\frac{1}{8}$ inch; and of aluminum in frame thicknesses of $\frac{3}{4}$ inch and $1\frac{1}{8}$ inch.



STANDARD DIMENSIONS

Light Weight Doors
7/16 Inch Thick

Side Stiles 2 Inch
Top Rail 3 Inch
Cross Rails 2 Inch
Base Rail 6 Inch

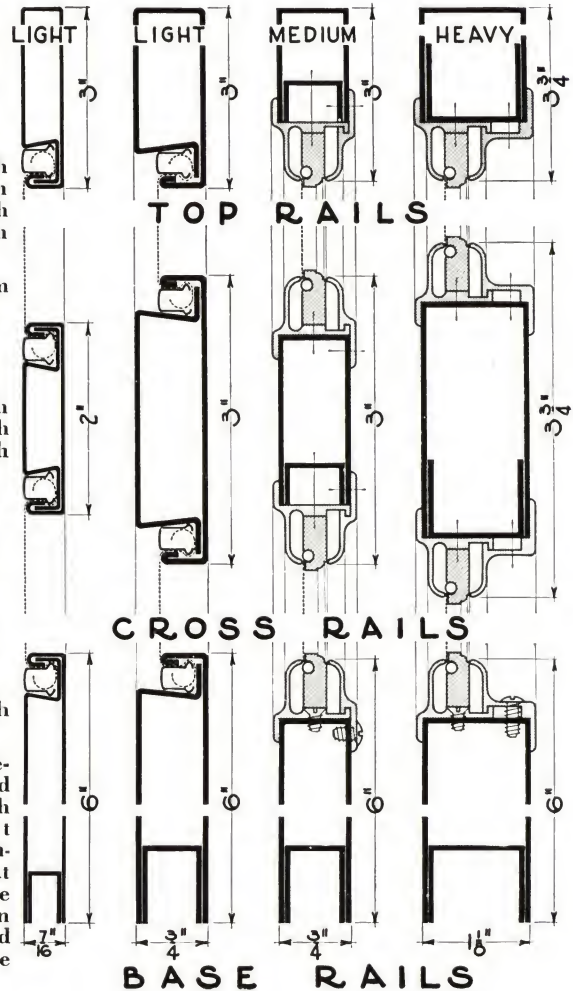
Light and Medium Weight Doors
3/4 Inch Thick

Side Stiles 2 1/2 Inch
Top Rail 3 Inch
Cross Rails 3 Inch
Base Rail 6 Inch

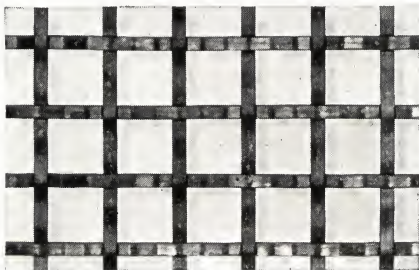
Heavy Weight Doors
1 1/8 Inch Thick

Side Stiles 3 3/4 Inch
Top Rail 3 3/4 Inch
Cross Rails 3 3/4 Inch
Base Rail 6 Inch

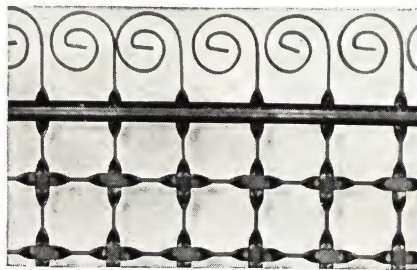
The 3/4 Inch Medium Weight and the 1 1/8 Inch Heavy Weight doors are constructed so that the removable screen panels can be interchanged with removable glass panels.



Doors may be made with wider stiles and rails when ordered special. Doors can be furnished in special panel and shape designs. Doors can be furnished in standard or special finishes. Solid bronze hardware is standard equipment.



A grille for screen doors made of bronze or steel ribbon interlocked to form a reinforcement against unusual service.



An ornamental scroll top may be added to screen door grilles when the door itself is made of only one panel.



A diamond mesh guard is an economical method of protection for doors and windows that must withstand extra hard usage.

CHAMBERLIN NU-ROLL SCREENS

Nu-Roll screens have many features that make them very desirable. They eliminate seasonal trouble and expense of installation, removal, and storage. When windows are closed, roll screens may be raised out of the way and out of sight. When installed on steel sash, undersill operating levers are unnecessary. Windows are easily accessible for cleaning purposes and awnings may be operated from the inside.

Nu-Roll Screens are adaptable to steel sash, out-swinging wood casements, and double-hung windows.

In cases of large steel windows, Nu-Roll Screens are usually mounted in such a way that only the moving sash is screened.

HOUSING AND GUIDE MATERIALS AND FINISHES

Steel—Housing, drawbar, and guides are made of cold-rolled steel, zinc-coated.

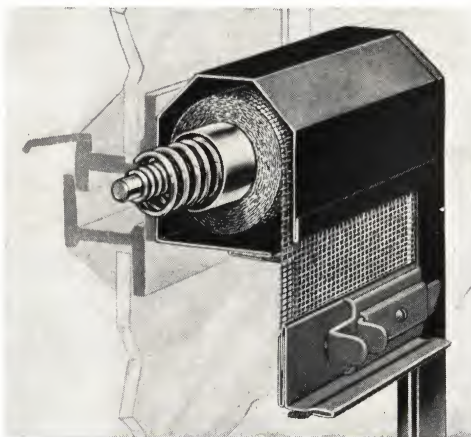
Standard colors (gray, green, brown, black) in baked enamel.

Special colors in lacquer over baked enamel primer.

Bronze—Housing, drawbar, and guides are made of solid (not plated) cold-rolled bronze, in polished or statuary bronze finish, either of which will harmonize with almost any color scheme.

DETAILS

Roller Housing—Screens under 70 in. in height have a box housing 2 in. in diameter; when over 70 in. in height, the housing is 2¼ in. in diameter. The wire cloth opening has hemmed edges and a heavy weatherproof felt baffle (an exclusive Chamberlin feature) to clean wire during operation and to keep insects out of the housing.



Housing Mounted on Transom Bar

Combinations—Concealed housing may be of steel (soffit only exposed) with bronze drawbar and guides.

Roller and Shaft—The roller is 22-gauge solid brass tubing, perfectly aligned and revolving on a ¼-in. rolled steel shaft. The wire cloth netting is soldered to the brass roller. The roller is packed with a special protective lubricant having a 300-degree melting point.

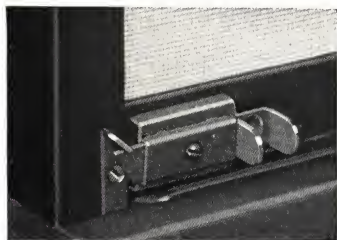
Roller Bearings—Roller is equipped with special Doehler die-cast, rustproof bearing at each end to insure continuous, smooth operation and to prevent binding.

Roller Spring—Spring runs entire length of roller. It is adjustable for tension and is made of specially drawn oil-tempered wire, enclosing an auxiliary spring tube to prevent the possibility of the main spring binding on the roller shaft.

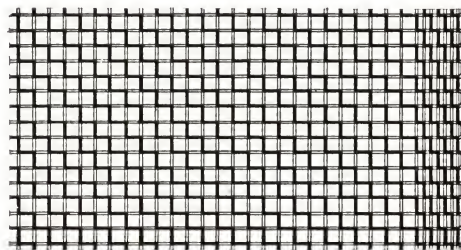
Wire Cloth—The wire cloth is made of specially annealed 16-mesh bronze Anaconda wire with five extra strands for selvage reinforcement.

Guides—Guides are made of rolled channels 15/16 in. deep. Each guide is made of two members—one member rigid, one of spring metal (an exclusive Chamberlin feature) which hugs the wire cloth. This insures insect-tightness, smooth and uniform operation, and prevents the cloth from vibrating against the housing lips. Tension of the spring member is adjustable and holds the drawbar at any point. The rigid guide member automatically interlocks with the drawbar at all positions.

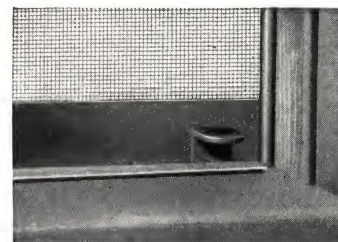
Drawbar and Catches—The drawbar is a rigid, two-piece flanged member to which, at either end, are attached automatic or spring bolt side catches engaging with keepers. The bottom of the drawbar is equipped with weatherproof, insect-tight, non-marring felt.



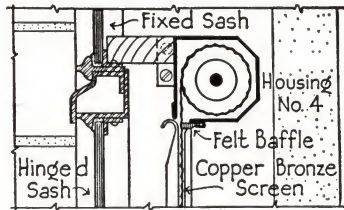
Spring Bolt Catch No. 19 and Keeper No. 21 used with Visible Guide



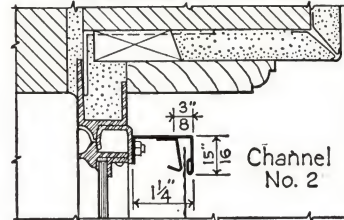
Screen Cloth with Reinforced Selvage of Five Extra Strands



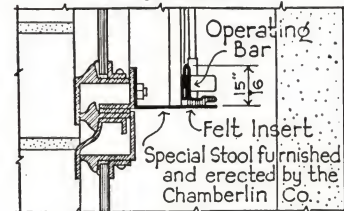
Automatic Catch No. 12 used with Concealed Guide



TRANSOM BAR



JAMB

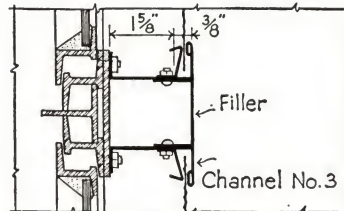


SILL

EQUIPMENT No. 42 S-S-P
Visible Installation on
Steel Projected Window

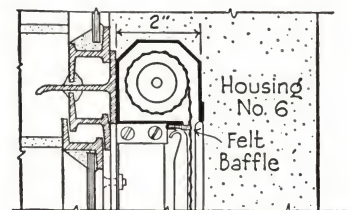
CASEMENT WINDOW INSTALLATIONS

The extremely small size of the roller housing (2 inches in diameter) with exposed corners beveled, together with the small neat guide channels, make the visible installations inconspicuous and unobtrusive. Concealed housing and guides provide practically invisible installations and the window opening is entirely clear when the screen is rolled up.

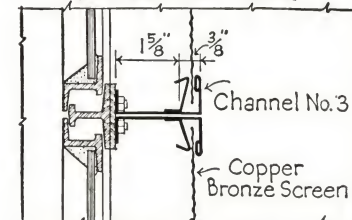


WIDE MULLION

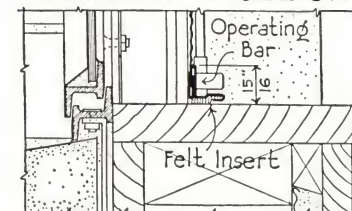
EQUIPMENT No. 63 S-S-T
Visible Installation on
Out-opening Steel Casement



TRANSOM BAR

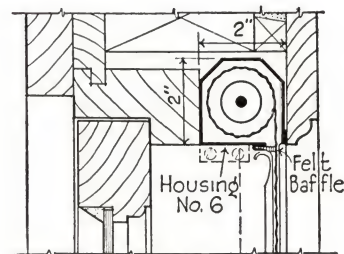


NARROW MULLION

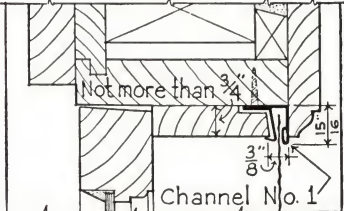


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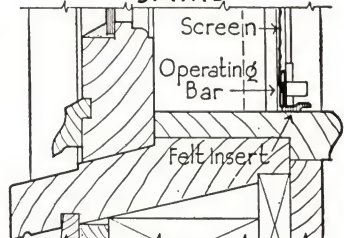
EQUIPMENT No. 63 S-S-T
Visible Installation on
Out-opening Steel Casement



HEAD

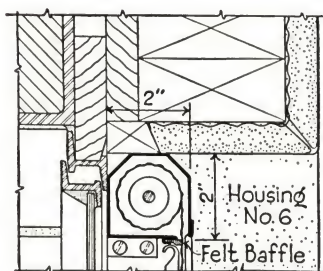


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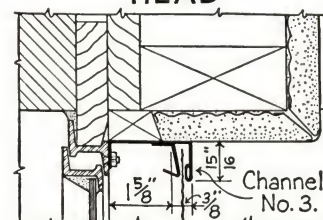


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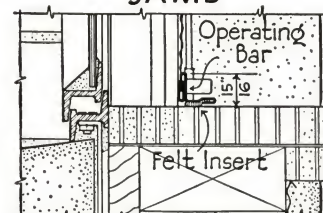
EQUIPMENT No. 61 W-W
Concealed Installation on
Out-opening Wood Casement



HEAD

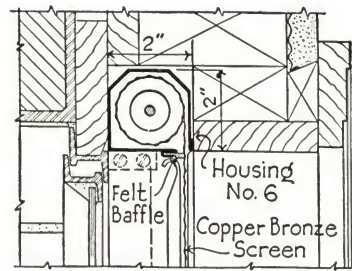


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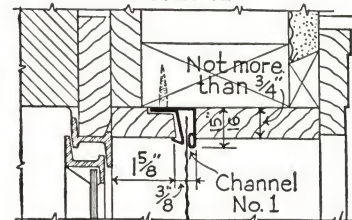


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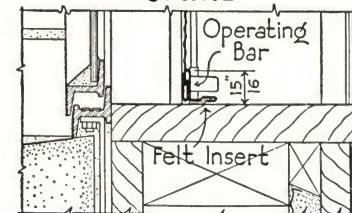
EQUIPMENT No. 63 S-S
Visible Installation on
Out-opening Steel Casement



HEAD

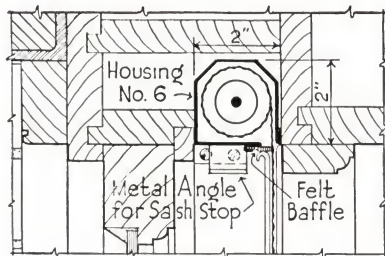


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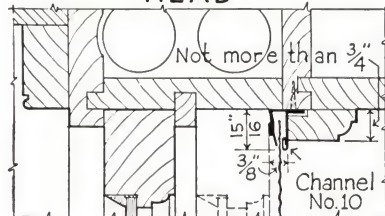


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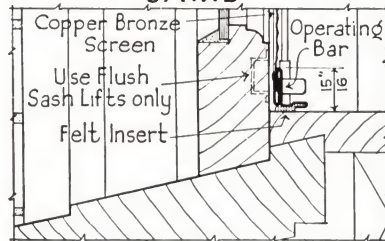
EQUIPMENT No. 61 S-W
Concealed Installation on
Out-opening Steel Casement



HEAD



JAMB



SILL

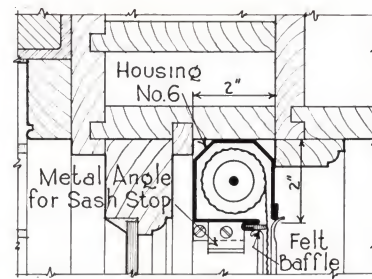
EQUIPMENT No. 610 R-W-W
Concealed Installation on
a Wood Double Hung Window.

DOUBLE HUNG WOOD WINDOW INSTALLATIONS

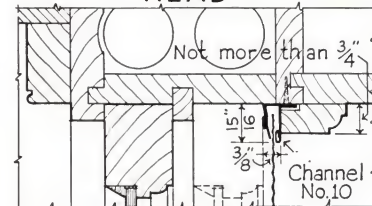
Where it is possible to conceal both the roller housing and the guides, the installation is practically invisible and the window opening is entirely clear when the screen cloth is rolled into the housing. This installation assures the maximum of ventilation and unobstructed view.

On the better class of work, the use of bronze housing and guides is recommended.

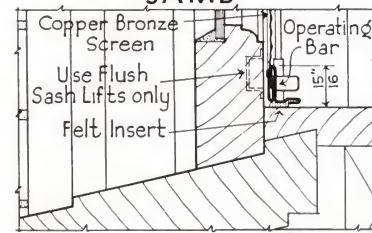
A combination of steel housing (only the bottom of the housing is exposed and this is usually hidden by draperies) with bronze guides and draw-bar may be used, or guides and draw-bar may also be of steel.



HEAD



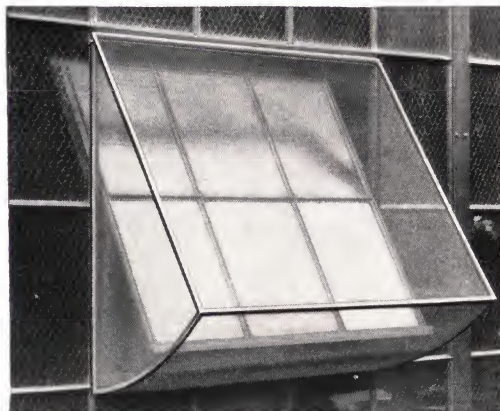
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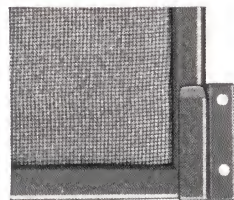
SILL

EQUIPMENT No. 610 R-W-W
Semi-Concealed Installation on
a Wood Double Hung Window

SCREENS FOR INDUSTRIAL and INSTITUTIONAL BUILDINGS



Chamberlin screens are made in many special shapes to suit particular requirements. They are ideally suited for industrial installations. Cage screens require more than usual skill in manufacturing, and the Chamberlin Solid narrow metal frame is particularly recommended for the purpose.



On asylums, hospitals, detention homes, etc., screens can be provided with locking device requiring special key for removal.



Box frame screens are used where window hardware would break through the wire cloth if the screen were installed on the window itself.



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